

Fig. 1

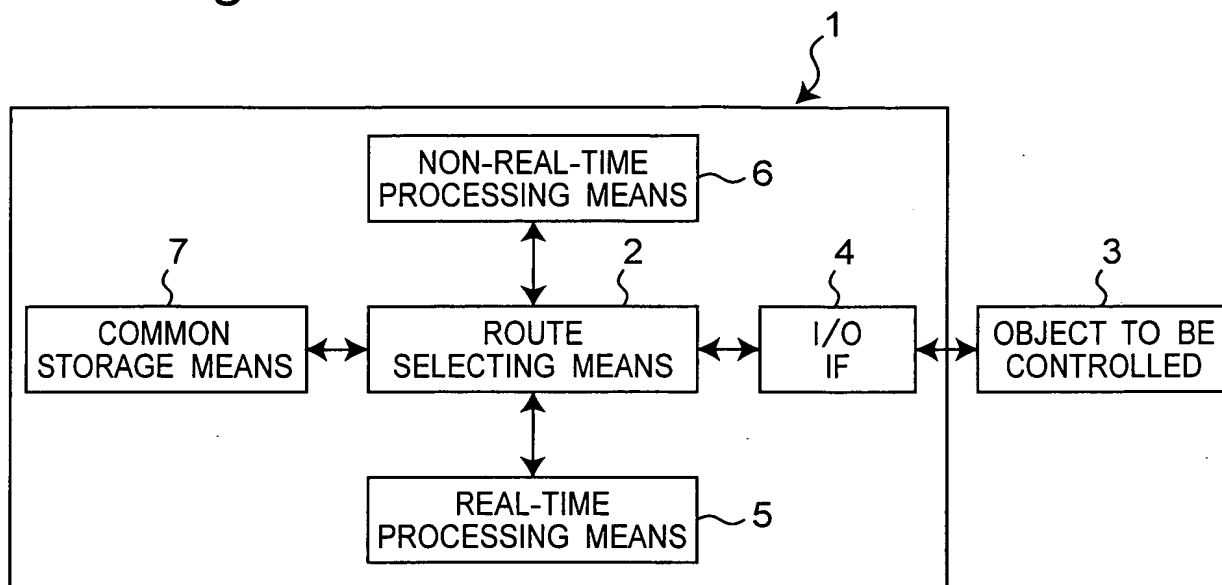


Fig. 2

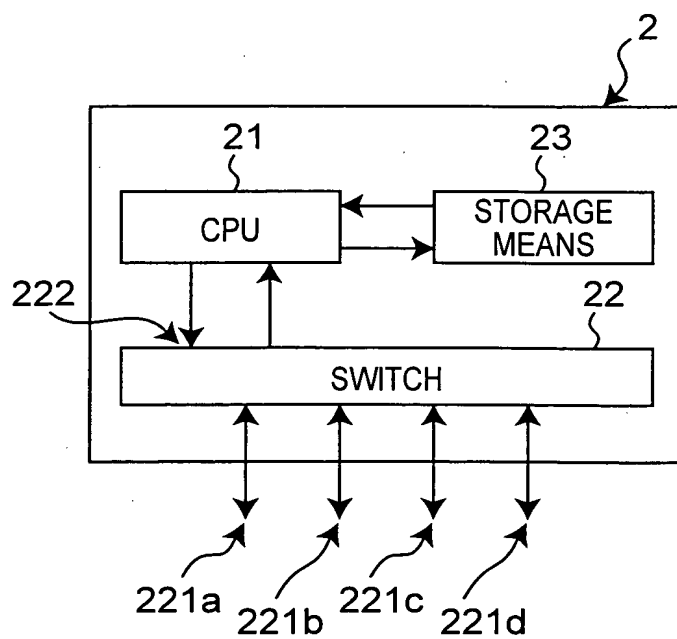


Fig. 3

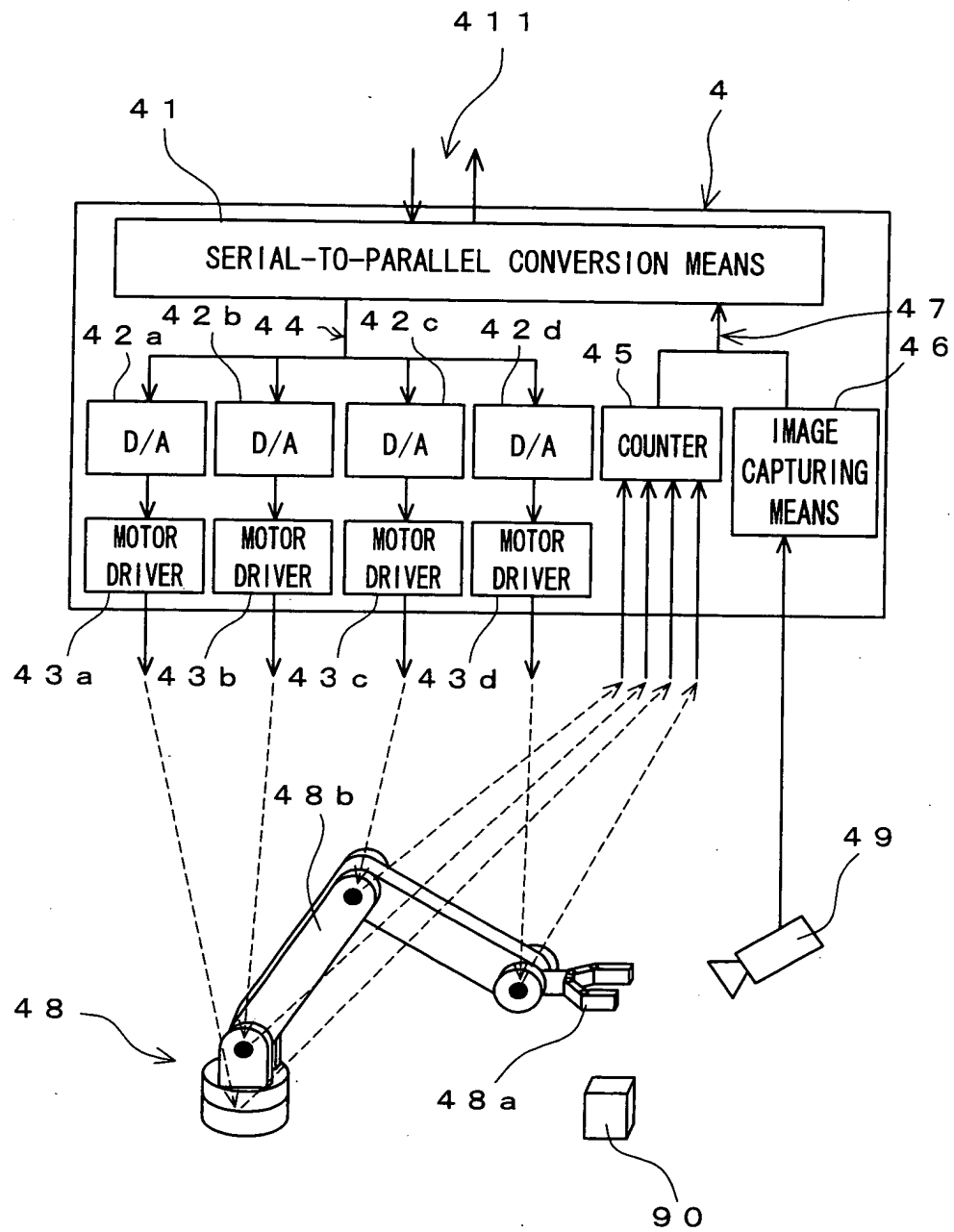


Fig. 4

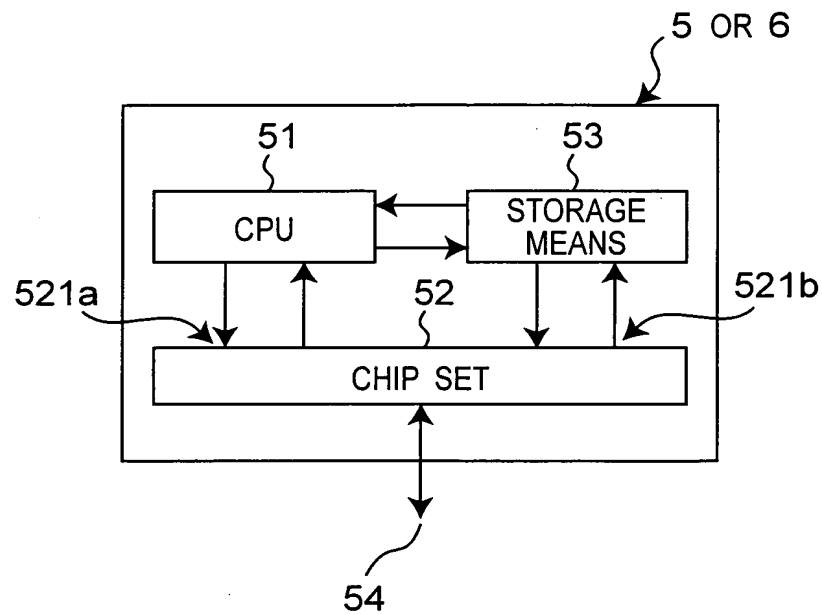


Fig.5

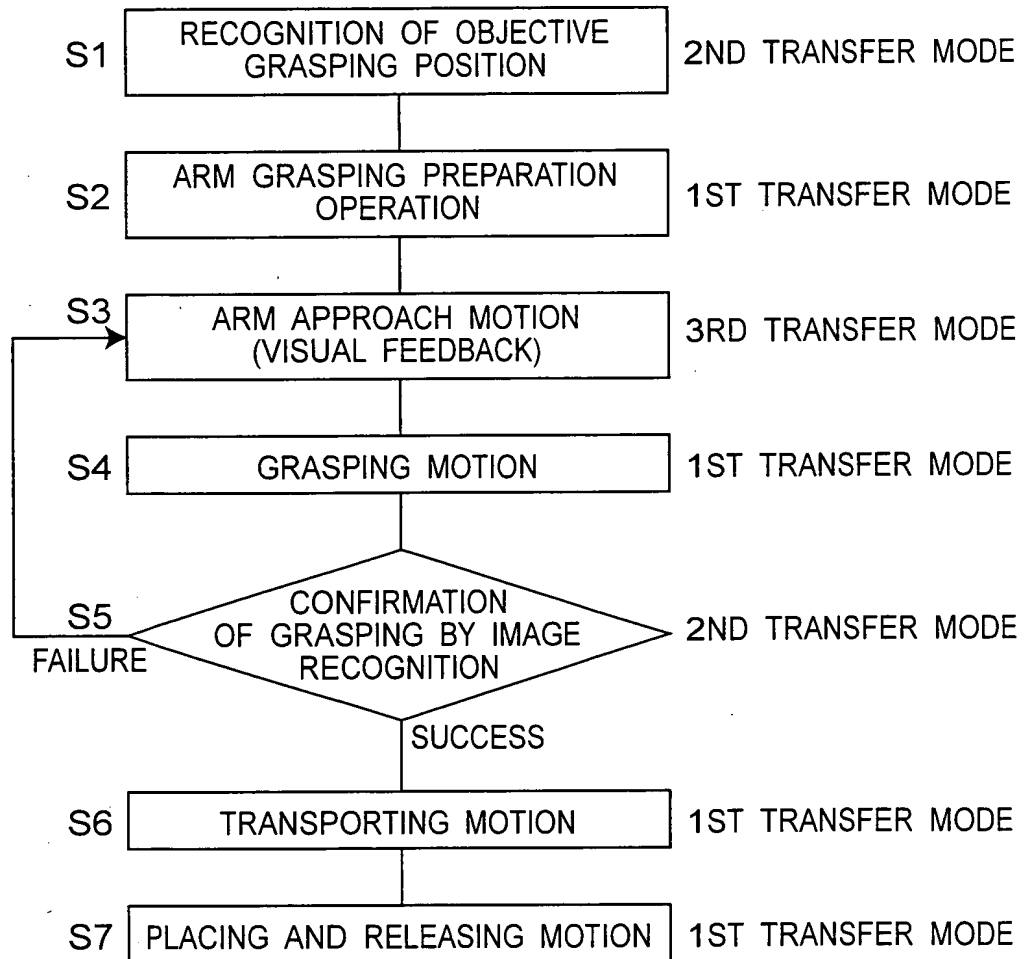


Fig. 6

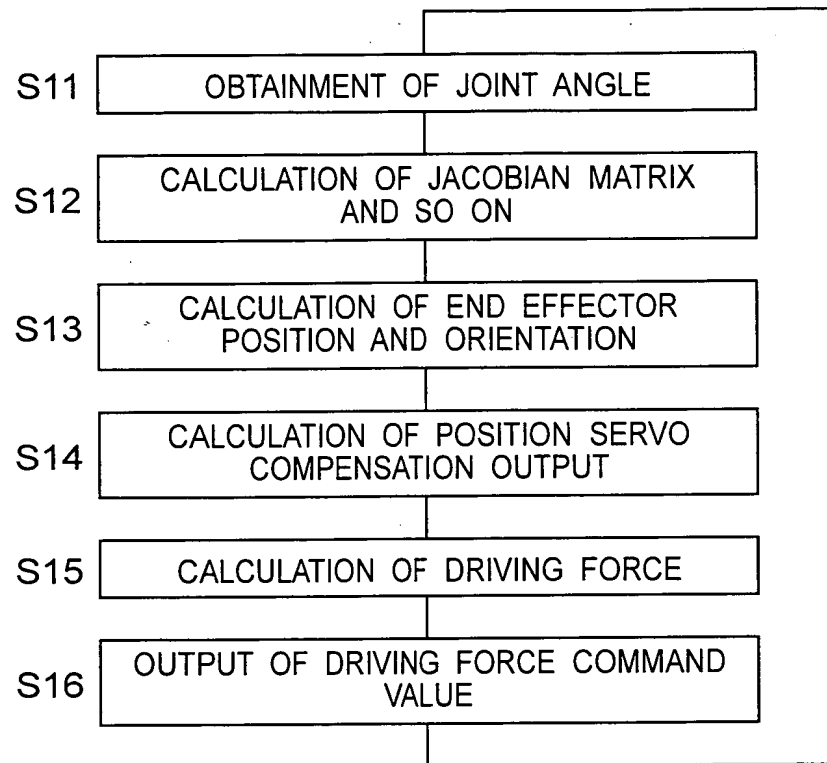


Fig. 7

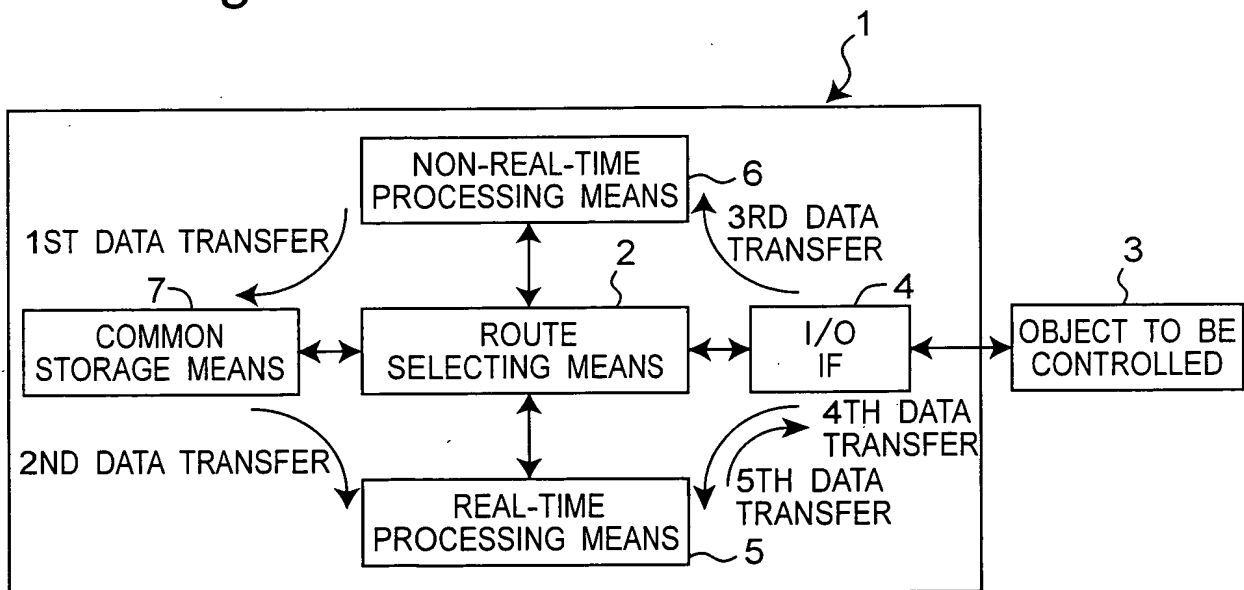


Fig. 8A

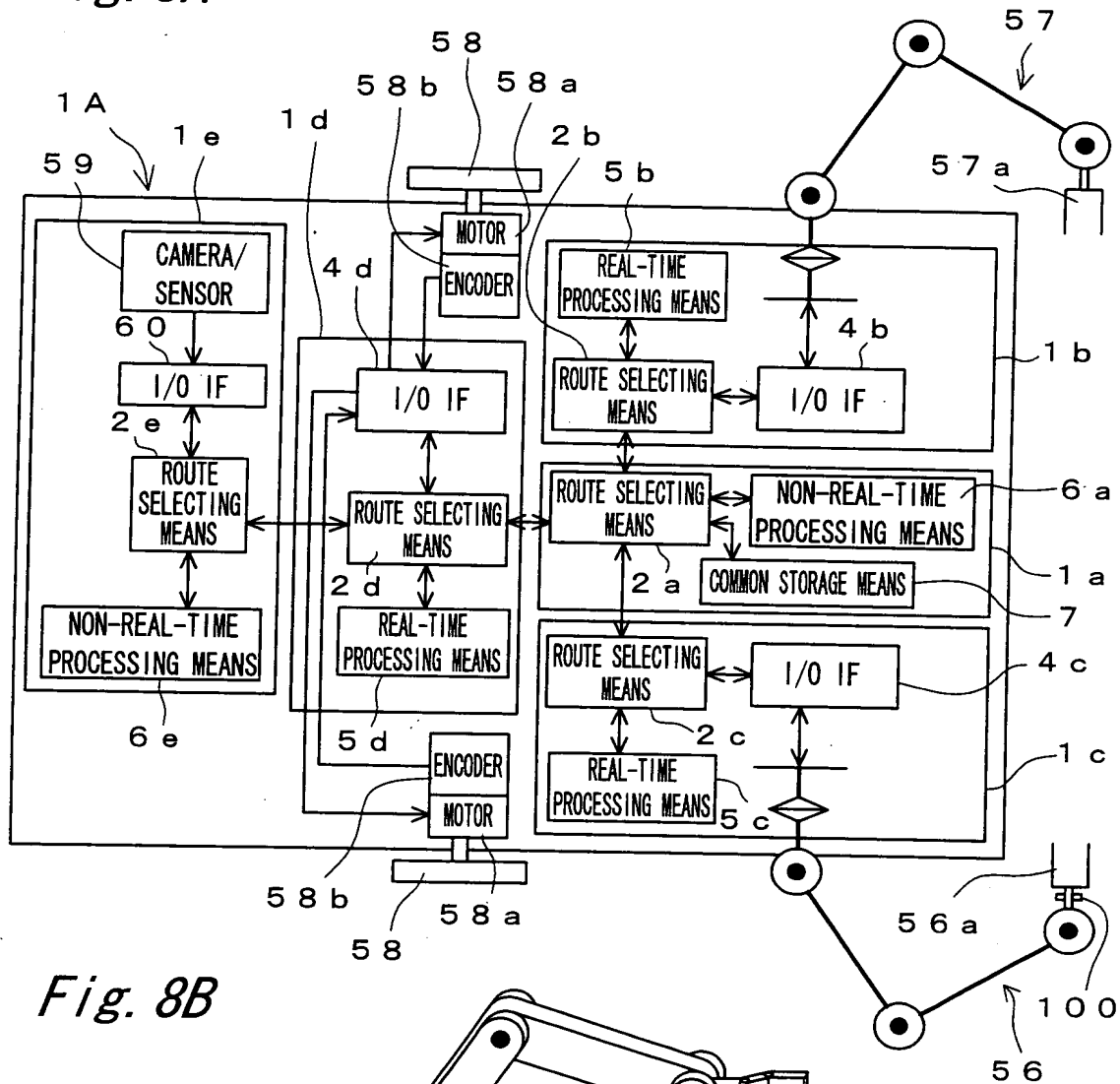


Fig. 8B

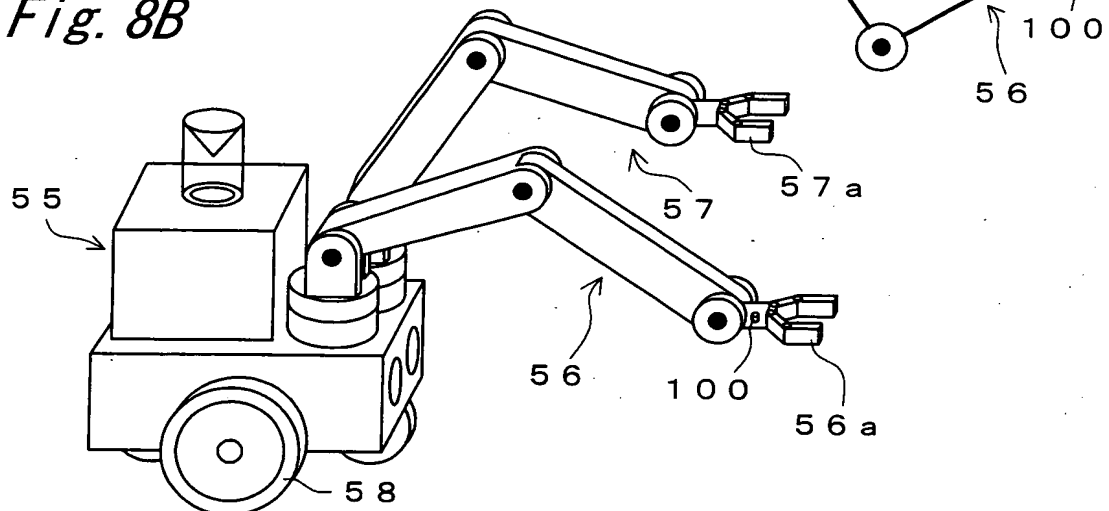


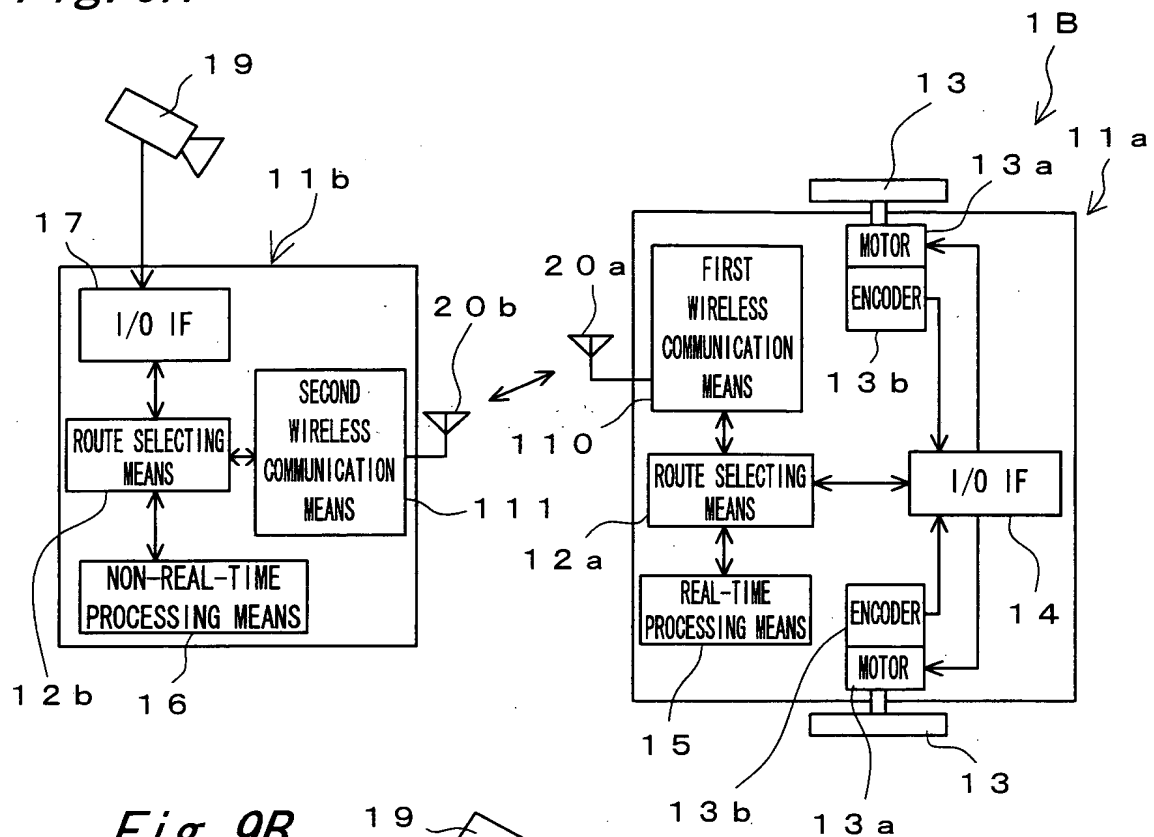
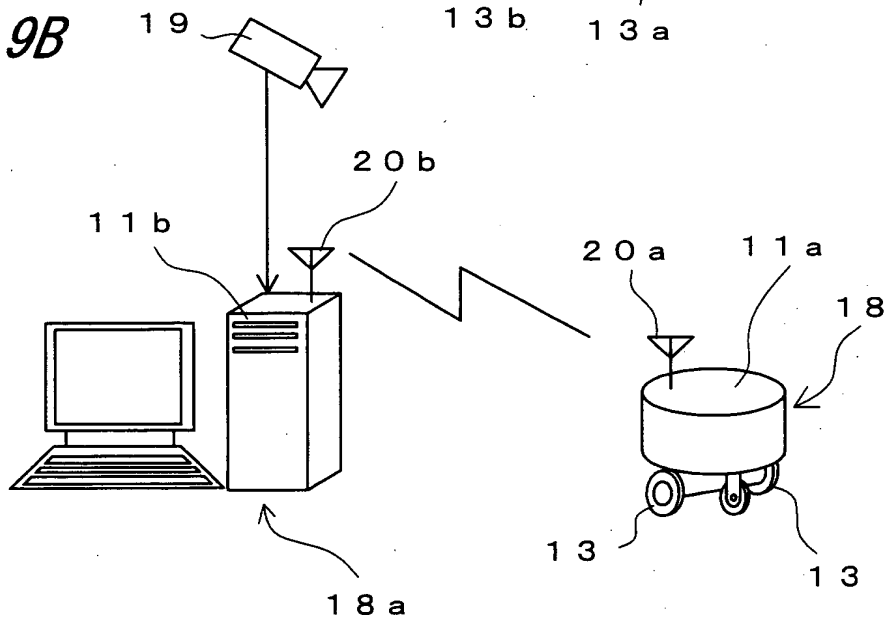
Fig. 9A*Fig. 9B*

Fig. 10

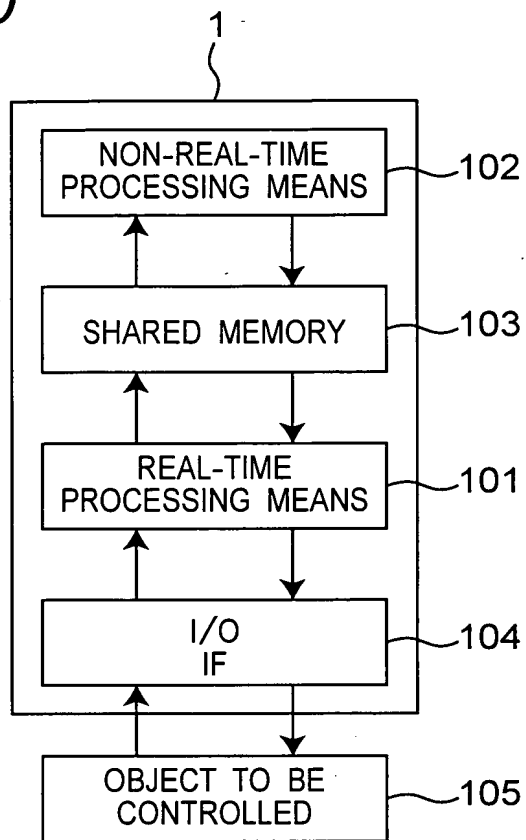
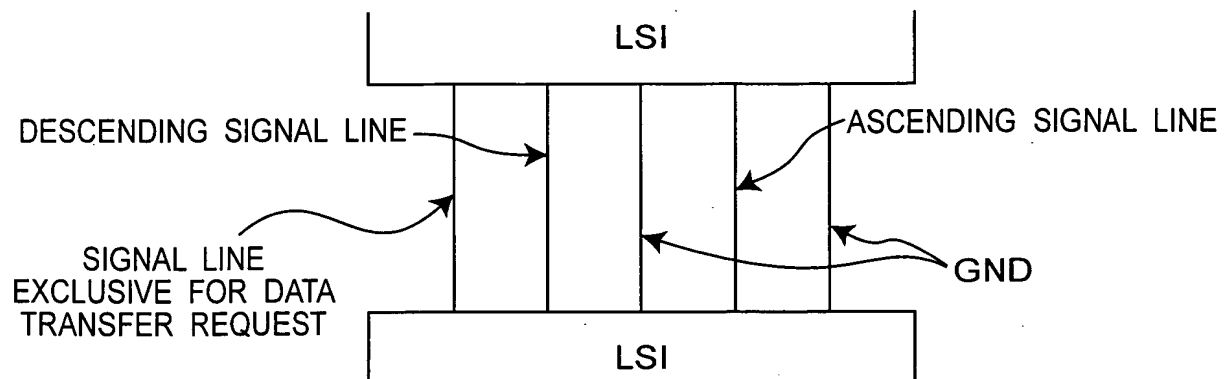


Fig. 11



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Fig. 12A

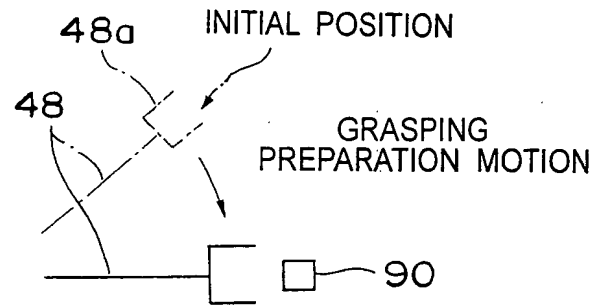


Fig. 12B

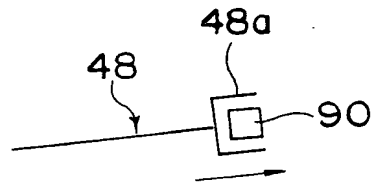


Fig. 12C

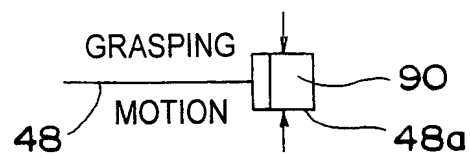


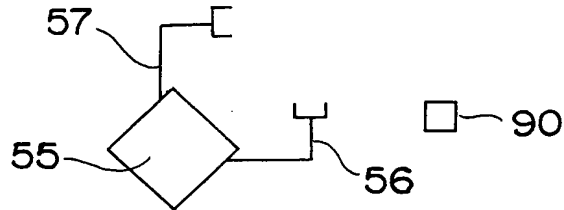
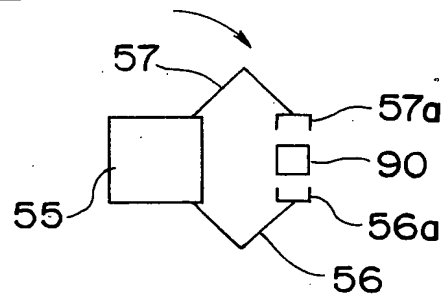
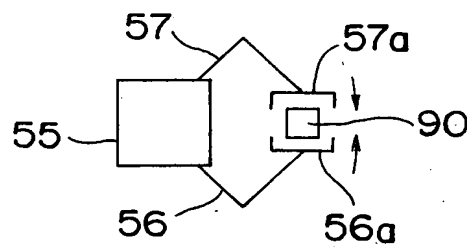
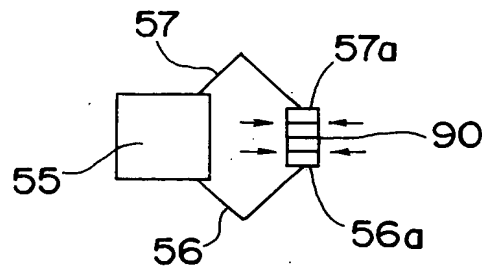
Fig. 13A*Fig. 13B**Fig. 13C**Fig. 13D*

Fig. 14

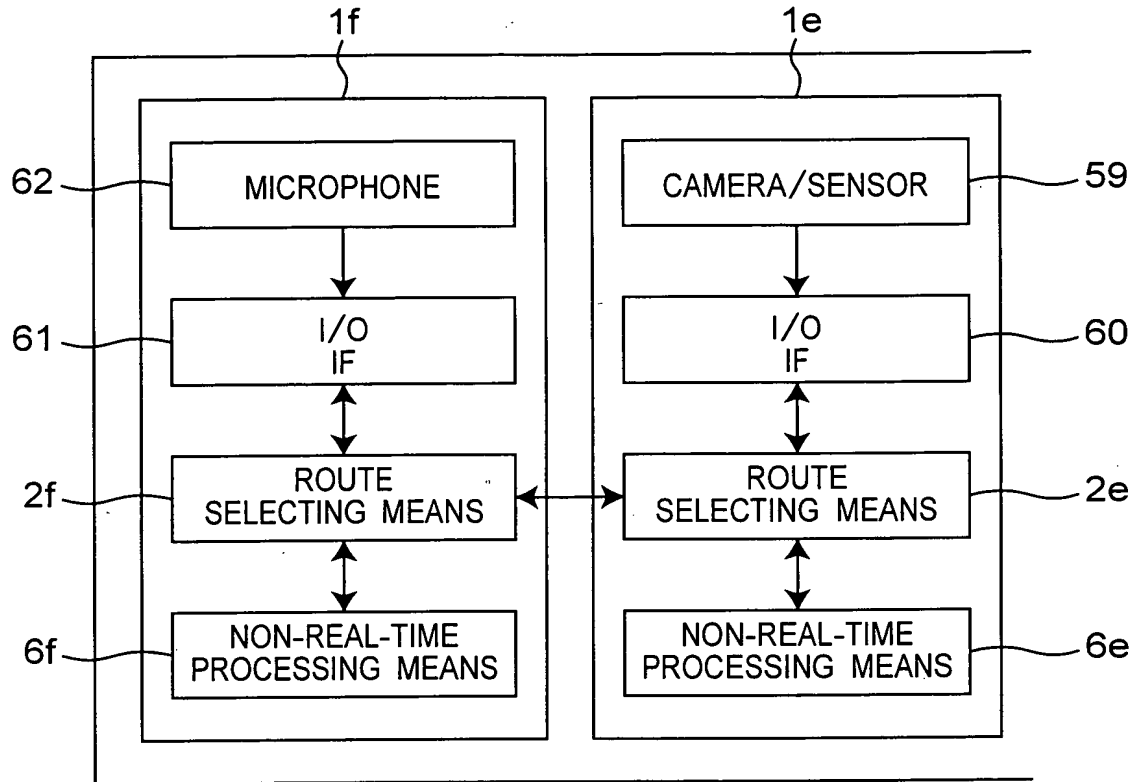


Fig. 15

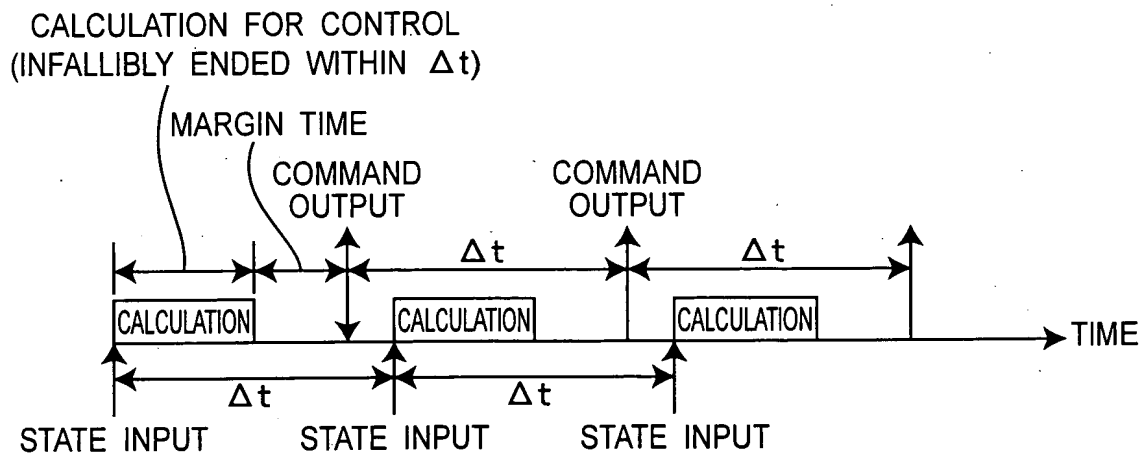


Fig. 16

| | TRANSFER ORIGINATOR | TRANSFER DESTINATION | DATA TYPE | PREFERENTIAL DATA | | |
|-------------------|---|----------------------------------|-----------|-------------------|----------|----------|
| | | | | 1ST MODE | 2ND MODE | 3RD MODE |
| 1ST DATA TRANSFER | NON-REAL-TIME PROCESSING MEANS→COMMON STORAGE MEANS | DESIRED TRAJECTORY DATA | | | | |
| 2ND DATA TRANSFER | COMMON STORAGE MEANS→REAL-TIME PROCESSING MEANS | DESIRED TRAJECTORY DATA | | ○ | | |
| 3RD DATA TRANSFER | I/O IF→NON-REAL-TIME PROCESSING MEANS | IMAGE DATA | | | ○ | |
| 4TH DATA TRANSFER | I/O IF→REAL-TIME PROCESSING MEANS | JOINT ANGLE DATA | | ○ | | |
| 5TH DATA TRANSFER | REAL-TIME PROCESSING MEANS→I/O IF | DRIVING FORCE VALUE COMMAND DATA | | ○ | | |

Fig. 17

| TRANSFER PATH | TRANSFER DESTINATION | TRANSFER ORIGINATOR | OCCUPATION RATIO (%) | | | | |
|--|----------------------|---|----------------------|-------------------|-------------------|-------------------|-------------------|
| | | | 1ST DATA TRANSFER | 2ND DATA TRANSFER | 3RD DATA TRANSFER | 4TH DATA TRANSFER | 5TH DATA TRANSFER |
| NON-REAL-TIME PROCESSING MEANS→ROUTE SELECTING MEANS | A | NON-REAL-TIME PROCESSING MEANS→COMMON STORAGE MEANS | | | 100 -A | | |
| REAL-TIME PROCESSING MEANS→ROUTE SELECTING MEANS | | COMMON STORAGE MEANS→REAL-TIME PROCESSING MEANS | | 100 -B-C | | B | C |
| I/O IF→ROUTE SELECTING MEANS | | I/O IF→NON-REAL-TIME PROCESSING MEANS | | | 100 -D-E | D | E |
| COMMON STORAGE MEANS→ROUTE SELECTING MEANS | F | I/O IF→REAL-TIME PROCESSING MEANS | | | | | |
| | | REAL-TIME PROCESSING MEANS→I/O IF | | | | | |